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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/841,080	04/25/2001	Takayuki Kurozumi	034620-092	5959	
7590 08/19/2005 ROBERT E. KREBS THELEN REID & PRIEST LLP P.O. BOX 640640			EXAMINER		
			ZHENG, EVA Y		
			4071007	DARES NO 1950	
			ART UNIT	PAPER NUMBER	
SAN JOSE, CA	A 95164-0640		2634	• :	
			DATE MAILED: 08/19/2003	; 5	

Please find below and/or attached an Office communication concerning this application or proceeding.

				\checkmark				
		Application No.	Applicant(s)					
Office Action Summary		09/841,080	KUROZUMI ET AL.					
		Examiner	Art Unit					
		Eva Yi Zheng	2634					
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	l. 1.136(a). In no event, however, may tryly within the statutory minimum of t d will apply and will expire SIX (6) M ate, cause the application to become	a reply be timely filed thirty (30) days will be considered timely. ONTHS from the mailing date of this comn ABANDONED (35 U.S.C. § 133).	nunication.				
Status								
1)⊠	Responsive to communication(s) filed on 25	<i>July</i> 2005.	•					
2a)□	This action is FINAL . 2b) ☐ Th	is action is non-final.						
3)⊠	Since this application is in condition for allow	ance except for formal m	atters, prosecution as to the m	erits is				
	closed in accordance with the practice under	Ex parte Quayle, 1935 C	S.D. 11, 453 O.G. 213.					
Disposit	ion of Claims							
4)🖂	4) Claim(s) <u>1-24</u> is/are pending in the application.							
	4a) Of the above claim(s) 2,7,12,17 and 21-24 is/are withdrawn from consideration.							
- 5)□	Claim(s) is/are allowed.							
	Claim(s) is/are rejected.							
	Claim(s) <u>1,3-6,8-11,13-16 and 18-20</u> is/are objected to.							
8)∟	8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreignal All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority application from the International Bure See the attached detailed Office action for a list	nts have been received. Ints have been received in It is in the contract of	Application No en received in this National St	age				
`	The angles dotained entire dotter for a lie	or the continue copies II	or received.					
Attachmen	• •							
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		w Summary (PTO-413)					
3) 🛛 Infor	re of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date 4/25/01,12/16/02.		o(s)/Mail Date of Informal Patent Application (PTO-15 	52)				

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DETAILED ACTION

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Request for Continued Examination

1. The request filed on July 25, 2005, for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 09/841,080 is acceptable and a RCE has been established. An action on the RCE follows.

Claim Objections

- 2. Claims 1 and 11 are objected to because of the following informalities:
- a) Regarding claim 1, on line 19, please deletes word: "and" at the end of a distortion adding step.
- b) Regarding claim 1, on line 24, please deletes word: "and" and change comma to a semicolon at the end of a histogram collating step.
- c) Regarding claim 11, on line 20, please deletes word: "and" at the end of a distortion adding section.
- d) Regarding claim 11, on line 25, please deletes word: "and" and change comma to a semicolon at the end of a histogram collating section.
- e) Regarding claim 11, on line 31, please deletes word: "and".

 Appropriate correction is required.

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Allowable Subject Matter

3. Claims 1, 3-6, 8-11, 13-16, and 18-20 would be allowable if rewritten to overcome the objections, set forth in this Office action.

4. The following is a statement of reasons for the indication of allowable subject matter:

None of the prior art teaches or suggests signal detection system as the current application. In more specific, US Paten 6,826,350 by Kashino et al. is a very close prior art. Kashino et al. disclose a feature quantity sequence as a reference, determine an input feature quantity signal, and calculate the signal degree of similarity between the reference and input feature quantity sequence. However, Kashino et al. fails to comprise a distortion or noise addition device in signal searching system. The current application overcome the prior art by a distortion adding step to the at least one of the reference time-series signal, the input time-series signal, the reference feature time-series signal, the input feature time-series signal, the reference coded time-series signal, and the input coded time-series signal. Moreover, in the distortion addition step: the added distortion is generated using random numbers; an amount of distortion used for distorting features is modeled using a normal distribution, wherein parameters in the modeling are the amount of parallel translation and the variances; and the distortion is added using at least one of the amount of parallel translation and the variance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. This application is in condition for allowance except for the following formal matters:

See description above.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Y Zheng whose telephone number is 571 272-3049. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 17, 2005

Eva Yi Zheng Examiner Art Unit 2634

> SHUWANG LIU PRIMARY EXAMINER

Storeing Lai